

WHAT IS CLAIMED IS:

1. An information signal

recording/reproducing system, using a recording medium having thereon an area which is different from an area for recording information signals and which medium-related information, which is information on the recording medium, is beforehand recorded in, or having a section accompanying the recording medium in which the medium-related information is beforehand recorded; and comprising a recording device section for recording the information signals on the recording medium and a reproducing device section for reproducing the information signals recorded on the recording medium;

the recording device section comprising:

recording-side medium-related information reading means for reading the medium-related information from the recording medium, or from the section accompanying the recording medium;

information adding means for adding the medium-related information read by means of the recording-side medium-related information reading means to the information signals; and

recording means for recording the information signals to which the medium-related information is added by means of the information adding means on the

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recording medium;

the reproducing device section comprising:

reproducing-side medium-related information reading means for reading the recording medium, or from the section accompanying the recording medium;

information signal reading means for reading the information signals from the recording medium;

detecting means for detecting the medium-related information added to the information signals from the information signal reading means;

determining means for determining whether or not the medium-related information from the reproducing-side medium-related information reading means is consistent with the medium-related information from the detecting means; and

reproduction controlling means for carrying out control for reproducing the information signals only when the medium-related information from the reproducing-side medium-related information reading means is consistent with the medium-related information from the detecting means.

2. An information signal recording/reproducing system according to claim 1, wherein the recording device section comprises a spreading means for spectrum-spreading the medium-

related information from the recording-side medium-related information reading means,

the information adding means in the recording device section is a means for superimposing the medium-related information spectrum-spread by means of the spreading means on the information signals to be recorded, and

the detecting means in the reproducing device section is a means for picking up the medium-related information spectrum-spread and superimposed on the information signals by inverse spectrum-spreading.

3. An information signal recording/reproducing system according to claim 1, wherein the recording device section comprises a signal level converting means for converting the medium-related information from the recording-side medium-related information reading means into a minute level signal,

the information adding means is a means for adding the medium-related information converted into the minute level signal by means of the signal level converting means to the information signals to be recorded, and

the detecting means in the reproducing device section is a means for picking up the medium-related

43. An information signal recording/reproducing system according to claim 37, wherein the reproducing device section comprises an informing means for informing that the information signals are not reproduced when the determined result from the determining means indicates that the device-related information from the reproducing-side device-related information obtaining means is not consistent with the device-related information from the detecting means.

44. An information signal recording/reproducing system comprising a recording device section for recording information signals on a recording medium, and a reproducing device section for reproducing the information signals recorded on the recording medium;

the recording device section comprising:

recording-side device-related information obtaining means for obtaining device-related information, which is information related to a recording device for recording the information signals;

additional information generating means for generating additional information on the basis of the device-related information from the recording-side

device-related information obtaining means;

information adding means for adding the additional information generated by means of the additional information generating means to the information signals; and

recording means for recording the information signals to which the additional information is added by means of the information adding means on the recording medium; and

the reproducing device section comprising:

reproducing-side device-related information obtaining means for obtaining a device-related information, which is information related to a reproducing device for reproducing the information signals;

information signal reading means for reading the information signals from the recording medium;

additional information detecting means for detecting the additional information added to the information signals from the information signal reading means, on the basis of the device-related information obtained by means of the reproducing-side device-related information obtaining means; and

reproducing control means for carrying out control for reproduction of the information signals

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only when the additional information added to the information signals is detected by means of the additional information detecting means.

45. An information signal recording/reproducing system according to claim 44, wherein the recording device section comprises a recording-side auxiliary recording medium setting means into which an auxiliary recording medium is set,

the recording-side medium-related information obtaining means is a means for obtaining the device-related information from the auxiliary recording medium set into the recording-side auxiliary recording medium setting means,

the reproducing device section comprises a reproducing-side auxiliary recording medium setting means into which the auxiliary recording medium is set, and

the reproducing-side medium-related information obtaining means is a means for obtaining the device-related information from the auxiliary recording medium set into the reproducing-side auxiliary recording medium setting means.

46. An information signal recording/reproducing system according to claim 44, wherein the recording-side additional information

generating means in the recording device section is a means for using the device-related information from the recording-side device-related information obtaining means as an enciphering key so as to generate the additional information, and

the additional information detecting means in the reproducing device section is a means for detecting the additional information added to the information signals from the information signal reading means by using the device-related information from the reproducing-side device-related information obtaining means as a decoding key to carry out decoding.

47. An information signal recording/reproducing system according to claim 44, wherein the reproducing device section comprises an information signal erasing means for erasing the information signals recorded on the recording medium to be reproduced when the additional information cannot be detected from the information signals by means of the additional information detecting means.

48. An information signal recording/reproducing system according to claim 44, wherein the reproducing device section comprises an informing means for informing that the information signals are not reproduced when the additional

information cannot be detected from the information signals by means of the additional information detecting means.

49. An information signal recording device for adding device-related information, which is information related to the recording device, to information signals to be recorded on a recording medium, and recording the resultant signals on the recording medium, comprising:

device-related information obtaining means for obtaining the device-related information;

information adding means for adding the device-related information obtained by means of the device-related information obtaining means to the information signals; and

recording means for recording the information signals to which the device-related information is added by means of the information adding means on the recording medium.

50. An information signal recording device according to claim 49, which comprises an auxiliary recording medium setting means into which an auxiliary recording medium is set,

the medium-related information obtaining means being a means for obtaining the device-related

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information from the auxiliary recording medium set into the auxiliary recording medium setting means.

51. An information signal recording device according to claim 49, which comprises a spreading means for spectrum-spreading the device-related information from the device-related information obtaining means,

the information adding means being a means for superimposing the device-related information spectrum-spread by means of the spreading means on the information signals to be recorded.

52. An information signal recording device according to claim 49, which comprises a signal level converting means for converting the device-related information from the device-related information obtaining means into a minute level signal,

the information adding means being a means for adding the device-related information converted into the minute level signal by means of the signal level converting means to the information signals to be recorded.

53. An information signal recording/reproducing device according to claim 49, which comprises an enciphering means for enciphering the device-related information from the device-related

information obtaining means,

the information adding mean being a means for adding the device-related information enciphered by means of the enciphering means to the information signals to be recorded.

54. An information signal recording device for adding additional information generated on the basis of device-related information, which is information related to the recording device, to information signals to be recorded on a recording medium, and recording the resultant signals on the recording medium, comprising:

device-related information obtaining means for obtaining device-related information, which is information related to the recording device for recording the information signals;

additional information generating means for generating additional information on the basis of the device-related information from the device-related information obtaining means;

information adding means for adding the additional information generated by means of the additional information generating means to the information signals; and

recording means for recording the information signals to which the additional information is added

by means of the information adding means on the recording medium.

55. An information signal recording device according to claim 54, which comprises an auxiliary recording medium setting means into which an auxiliary recording medium is set, and

the device-related information obtaining means being a means for obtaining the device-related information from the auxiliary recording medium set into the auxiliary recording medium setting means.

56. An information signal recording device according to claim 54, wherein the additional information generating means is a means for using the device-related information from the device-related information obtaining means as an enciphering key so as to generate the additional information.

57. An information signal reproducing device for reproducing information signals which device-related information related to a recording device is added to and which are recorded on a recording medium, comprising:

reproducing-side device-related information obtaining means for obtaining device-related information, which is information related to the reproducing device for reproducing the information

signals;

information signal reading means for reading the information signals from the recording medium;

detecting means for detecting the device-related information added to the information signals from the information signal reading means;

determining means for determining whether or not the device-related information from the device-related information obtaining means is consistent with the device-related information from the detecting means; and

reproducing control means for carrying out control for reproduction of the information signals only when the determining means indicates that the device-related information from the device-related information obtaining means is consistent with the device-related information from the detecting means.

58. An information signal reproducing device according to claim 57, which comprises an auxiliary medium setting means into which an auxiliary recording medium is set,

the device-related information obtaining means being a means for obtaining the device-related information from the auxiliary recording medium set into the auxiliary recording medium setting means.

59. An information signal reproducing device according to claim 57, wherein the device-related information added to the information signals is spectrum-spread and superimposed on the information signals, and

the detecting means is a means for picking up the device-related information spectrum-spread and superimposed on the information signals by inverse spectrum-spreading.

60. An information signal reproducing device according to claim 57, wherein the device-related information added to the information signals is added, as a minute level signal, and

the detecting means is a means for picking up device-related information added to the information signals, as the minute level signal.

61. An information signal reproducing device according to claim 57, wherein the additional information added to the information signals is enciphered and added to the information signals, and

the detecting means is a means for extracting and decoding the device-related information enciphered and added to the information signals, so as to pick up the device-related information added to the information signals.

62. An information signal reproducing device according to claim 57, which comprises an information signal erasing means for erasing the information signals recorded on the recording medium to be reproduced when the determined result from the determining means indicates that the device-related information from the device-related information obtaining means is not consistent with the device-related information from the detecting means.

63. An information signal reproducing device according to claim 57, which comprises an informing means for informing that the information signals are not reproduced when the determined result from the determining means indicates that the device-related information from the reproducing-side device-related information obtaining means is not consistent with the device-related information from the detecting means.

64. An information signal reproducing device for reproducing information signals which device-related information related to a recording device is added to and which are recorded on a recording medium, comprising:

device-related information obtaining means for obtaining the device-related information, which is information related to the reproducing device for

recording the information signals;

information signal reading means for reading the information signals from the recording medium;

additional information detecting means for detecting the additional information added to the information signals from the information signal reading means on the basis of the device-related information obtained by means of the device-related information obtaining means; and

reproducing control means for carrying out control for reproduction of the information signals only when the additional information added to the information signals is detected by means of the additional information detecting means.

65. An information signal reproducing device according to claim 64, which comprises an auxiliary recording medium setting means into which an auxiliary recording medium is set,

the device-related information obtaining means being a means for obtaining the device-related information from the auxiliary recording medium set into the recording-side auxiliary recording medium setting means.

66. An information signal reproducing device according to claim 64, wherein the additional

information added to the information signals is generated by using the device-related information as an enciphering key to carry out enciphering,

the additional information detecting means is a means for detecting the additional information added to the information signals from the information signals reading means by using the device-related information from the device-related information obtaining means as a decoding key to carry out decoding.

67. An information signal reproducing device according to claim 64, which comprises an information signal erasing means for erasing the information signals recorded on the recording medium to be reproduced when the additional information cannot be detected from the information signals by means of the additional information detecting means.

68. An information signal reproducing device according to claim 64, which comprises an informing means for informing that the information signals are not reproduced when the additional information cannot be detected from the information signals by means of the additional information detecting means.

69. An information signal recording/reproducing process for recording information signals on a recording medium, and



reproducing the information signals recorded on the recording medium

comprising, when the information signals are recorded on the recording medium,

the recording-side device-related information obtaining step of obtaining device-related information, which is information related to a recording device for recording the information signals,

the information adding step of adding the device-related information obtained by means of the recording-side device-related information obtaining means to the information signals, and

the recording step of recording the information signals to which the medium-related information is added in the information adding step on the recording medium; and

comprising, when the information signals recorded on the recording medium are reproduced,

the reproducing-side device-related information obtaining step of obtaining device-related information, which is information related to a reproducing device for reproducing the information signals,

the information signal reading step of reading the information signals from the recording medium,

the detecting step of detecting the device-related information added to the information signals from the information signal reading step,

the determining step of determining whether or not the device-related information from the reproducing-side device-related information obtaining step is consistent with the device-related information from the detecting step, and

the reproduction controlling step of carrying out control for reproducing the information signals only when the device-related information from the reproducing-side device-related information obtaining step is consistent with the device-related information from the detecting step.

70. An information signal recording/reproducing process according to claim 69, which comprises, when the information signals are recorded on the recording medium, the spreading step of spectrum-spreading the device-related information from the recording-side medium-related information obtaining step,

the device-related information spectrum-spread in the spreading step being superimposed on the information signals to be recorded, in the information adding step, and

wherein when the information signals recorded on the recording medium are reproduced, the device-related information spectrum-spread and superimposed on the information signals by inverse spectrum-spreading is picked up, in the detecting step.

71. An information signal recording/reproducing process according to claim 69, which comprises, when the information signals are recorded on the recording medium, the signal level converting step of converting the device-related information from the device-related information obtaining step into a minute level signal,

the device-related information converted into the minute level signal in the signal level converting step being added to the information signals to be recorded, in the information adding step, and

wherein when the information signals recorded on the recording device are reproduced, the device-related information added to the information signals, as the minute level signal, is picked up, in the detecting step.

72. An information signal recording/reproducing process according to claim 69, which comprises, when the information signals are recorded on the recording device, the enciphering step

of enciphering the device-related information from the recording-side device-related information obtaining step,

the device-related information enciphered in the enciphering step being added to the information signals to be recorded, in the information adding step, and

wherein when the information signals recorded on the recording device are reproduced, the device-related information enciphered and added to the information signals is extracted and decoded so as to pick up the device-related information added to the information signals, in the detecting step.

73. An information signal recording/reproducing process according to claim 69, which comprises the information signal erasing step for erasing the information signals recorded on the recording device to be reproduced when the determined result from the determining step indicates that the device-related information obtained in the reproducing-side device-related information obtaining step is not consistent with the device-related information from the detecting step.

74. An information signal recording/reproducing process according to claim 69,

which comprises the informing step of informing that the information signals are not reproduced when the determined result from the determining step is that the device-related information from the reproducing-side device-related information reading step is not consistent with the device-related information from the detecting step.

75. An information signal recording/reproducing process for recording information signals on a recording medium, and reproducing the information signals recorded on the recording medium

which comprises, when the information signals are recorded on the recording medium,

the recording-side device-related information obtaining step of obtaining device-related information, which is information related to a recording device for recording the information signals,

the additional information generating step of generating additional information on the basis of the device-related information from the recording-side device-related information obtaining step,

the information adding step of adding the additional information generated in the additional information generating step to the information signals,

and

the recording step of recording the information signals to which the additional information is added by means of the information adding means on the recording medium; and

comprises, when the information signals recorded on the recording medium are reproduced,

the reproducing-side medium-related information obtaining step of obtaining device-related information, which is information related to a reproducing device for reproducing the information signals,

the information signal reading step of reading the information signals from the recording medium,

the additional information detecting step of detecting the additional information added to the information signals from the information signal reading step on the basis of the device-related information obtained in the reproducing-side device-related information obtaining step, and

the reproduction controlling step of carrying out control for reproducing the information signals only when the additional information added to the information signals is detected in the additional information detecting step.